AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method of implementing an admission control algorithm in a telecommunications system, ~~in which~~the method comprising:

dynamically adapting at least one parameter of said algorithm ~~is adapted dynamically~~ as a function of a traffic model representative of the traffic present.

2. (Original) A method according to claim 1, wherein said traffic model includes one or more parameters representative of the type(s) of traffic present.

3. (Original) A method according to claim 2, wherein parameters representative of a type of traffic include parameters representative of quality of service (QoS) requirements for that traffic type.

4. (Currently Amended) ~~A method according to claim 3,~~ A method of implementing an admission control algorithm in a telecommunications system, the method comprising:

dynamically adapting at least one parameter of said algorithm as a function of a traffic model representative of the traffic present,

wherein parameters representative of a type of traffic include parameters representative of quality of service (QoS) requirements for that traffic type, and

wherein parameters representative of quality of service requirements include a maximum transmission time-delay and a probability that the transmission time-delay will be greater than that maximum transmission time-delay.

5. (Original) A method according to claim 2, wherein parameters representative of the type of traffic include parameters representative of transmission resource requirements for said traffic type and for a given quality of service (QoS).

6. (Original) A method according to claim 5, wherein parameters representative of transmission resource requirements for a given quality of service (QoS) include a connection activity factor.

7. (Previously Presented) A method according to claim 1, wherein, if different traffic types are present, said traffic model includes relative proportions for said different traffic types.

8. (Previously Presented) A method according to claim 1, wherein said at least one parameter corresponds to a margin corresponding to a maximum acceptable load.

9. (Previously Presented) A method according to claim 1, wherein said at least one parameter corresponds to an equivalent bandwidth.

10. (Previously Presented) A method according to claim 1, wherein the value of said at least one parameter is chosen from different reference values optimized for different reference traffic models.

11. (Original) A method according to claim 10, wherein, for a traffic model that does not correspond to a reference traffic model, a reference traffic model is determined that constitutes the best approximation thereof.

12. (Original) A method according to claim 10, wherein, for a traffic model that does not correspond to a reference traffic model, a reference traffic model is determined that constitutes the best approximation thereof and has the severest constraints.

13. (Previously Presented) A method according to claim 1, including a first step during which reference traffic models are determined and corresponding reference values for said at least one parameter are determined.

14. (Original) A method according to claim 13, wherein said reference values are determined by simulation or measurement.

15. (Original) A method according to claim 13, wherein said reference values are determined by calculation.

16. (Previously Presented) A method according to claim 13, including a second step during which reference traffic models and corresponding reference values are stored in a memory.

17. (Currently Amended) A method according to claim ~~13~~16, including a third step during which a traffic model representative of the traffic present is estimated.

18. (Original) A method according to claim 17, wherein said estimation includes an estimation of the traffic types present and, if different traffic types are present, relative proportions for said different traffic types.

19. (Original) A method according to claim 18, wherein said estimation includes estimating the traffic types present based on traffic information contained in signaling messages received by a network element from at least one other network element.

20. (Original) A method according to claim 18, wherein said estimation includes estimating relative proportions for different traffic types obtained by measuring or counting traffic.

21. (Previously Presented) A method according to claim 17, wherein a traffic model representative of the traffic present is re-estimated each time a new connection is set-up and each time a connection is cleared down.

22. (Previously Presented) A method according to claim 17, wherein a traffic model representative of the traffic present is re-estimated at the end of a pre-determined time period.

23. (Currently Amended) A method according to claim ~~13~~17, including a fourth step during which the reference traffic model is chosen that best approximates the traffic model estimated during the third step.

24. (Currently Amended) A method according to claim ~~13~~23, ~~including a~~wherein during the fourth step, ~~during which~~ the reference traffic model is chosen that best approximates the traffic model estimated during the third step ~~and has~~ according to the severest constraints.

25. (Currently Amended) A method according to claim ~~13~~23, including a fifth step during which said at least one parameter of said algorithm is dynamically modified as a function of parameter~~(s)~~s corresponding to the reference traffic model chosen during the fourth step.

26. (Original) A method according to claim 25, wherein a modification is effected only in the event of a significant change in said at least one parameter.

27. (Currently Amended) A method according to claim ~~13~~25, including a sixth step during which said algorithm is executed with said at least one parameter modified during the fifth step.

28. (Previously Presented) A method according to claim 1, used for AAL2 connection admission control on an ATM virtual circuit.

29. (Original) A method according to claim 28, used for AAL2 connection admission control on an ATM virtual circuit at a Iub interface in a UTRAN.

30. (Original) A method according to claim 28, used for AAL2 connection admission control on an ATM virtual circuit at a Iu-CS interface in a UTRAN.

31. (Original) A method according to claim 28, used for AAL2 connection admission control on an ATM virtual circuit at a Iur interface in a UTRAN.

32. (Previously Presented) A method according to claim 1, used for admission control in a packet-switched mode network.

33. (Previously Presented) A method according to claim 1, used for admission control at the radio interface of a CDMA system.

34. (Previously Presented) A radio access network element for use in a mobile radio system and including means for implementing a method according to claim 1.

35. (Previously Presented) A base station controller (RNC) for use in a mobile radio system and including means for implementing a method according to claim 1.

36. (Previously Presented) A base station (Node B) for use in a mobile radio system and including means for implementing a method according to claim 1.

37. (Previously Presented) A core network element for use in a mobile radio system and including means for implementing a method according to claim 1.